

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A method for printing a document with a security marking comprising:
  - a) providing an ink ~~capable of~~ for printing images which are visible both to viewing under white light and as fluorescent images when irradiated with ultraviolet light; and
  - b) printing at least two image segments, the image segments having features of different sizes,wherein the ~~relative~~ sizes of the two image segments will provide a detectable difference in fluorescent image sharpness.
2. (currently amended) ~~A~~ The method according to claim 1 wherein the visible image of both image segments are readable by machine.
3. (currently amended) ~~A~~ The method according to claim 1 wherein at least one image segment will have feature dimensions within the range of from about 50 to 200  $\mu\text{m}$  and at least one image segment will have feature dimensions of at least about 100  $\mu\text{m}$ , and the two image segments will have features that differ in feature dimension by at least about 50%.

4. (currently amended) A ~~The~~ method according to claim 3 wherein, the two image segments will have features that differ in feature dimension by at least about 100%.
5. (currently amended) A ~~The~~ method according to claim 1 wherein the two ~~barcode~~ image segments are printed with a ~~POV~~ Photosensitive Optically Variable (POV) ink.
6. (currently amended) A method for authenticating printed documents comprises:
  - a) obtaining at least one document having an image printed thereon comprised of at least two image segments of different feature size, said image printed with an ink ~~capable of~~ for printing images which are visible both to viewing under white light and as fluorescent images when irradiated with ultraviolet light;
  - b) illuminating both image segments with both white light and ultraviolet light;
  - c) measuring ~~the~~ a positive and negative contrast for both image segments;
  - d) comparing the measured contrast values for the image segments to predetermined values; and
  - e) based on the comparison, determining if the document is an original or if ~~it~~ the document is identified as a copy.
7. (currently amended) An apparatus for testing a document printed with a security marking comprising:
  - a) means for illuminating image segments of a document having two barcode segments;
  - b) means for measuring ~~the~~ a positive and negative contrast for both image segments;
  - c) means for comparing the measured contrast values for the image segments to predetermined values; and

d) means for, based on the comparison, determining if the document is an original or if it is identified as a copy.

8. (currently amended) A printed document with a security marking, comprising:  
| at least two image segments printed with an ink ~~capable of~~ for forming images  
| which are visible both to viewing under white light and as fluorescent images  
| when irradiated with ultraviolet light, the image segments having features of  
| different sizes,  
| wherein the ~~relative~~ sizes of the two image segments will provide a detectable  
| difference in fluorescent image sharpness.